

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/039781

A. CLASSIFICATION OF SUBJECT MATTER  
C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, EMBASE, BIOSIS, Sequence Search

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 6 38G 370 B1 (DOUCETTE- STAMM LYNN A ET AL) 30 April 2002 (2002-04-30) column 8, paragraphs 1,4,7 column 11, paragraph 1 claim 1 -----	1-4, 9, 14-59
X	EP 1 096 024 A (FACULTES UNIVERSITAIRES NOTRE-DAME DE LA PAIX) 2 May 2001 (2001-05-02) claims 1,8,9 paragraphs [0032], [0041] -----	1-4, 9, 14-59
X	WO 99/01572 A (ID BIOMEDICAL CORPORATION; BEKKAUI, FAOUZI; CLONEY, LYNN, P) 14 January 1999 (1999-01-14) claims 1,9-12,15,16 page 9, paragraph 2 ----- -/--	1-4, 9, 14-59

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

**\* Special categories of cited documents**

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 August 2005

Date of mailing of the international search report

7 . 1 2005

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	wo 00/66788 A (GEN-PROBE INCORPORATED; HOGAN, JAMES, J ; GORDON, PATRICIA) 9 November 2000 (2000-11-09) claims 1,11,14,21,22,30,40 page 20, paragraph 1 -----	1-4,9, 14-59
X	wo 03/052128 A (HVIDOVRE HOSPITAL; WESTH, HENRIK; LI SBY, GORM) 26 June 2003 (2003-06-26) claims 1,2,12,13,31,71,84 page 28, paragraph 6 page 32, paragraph 2 -----	1-4,9, 14-59
X	EP 0 957 175 A (ACADEMISCH ZIEKENHUIS GRONINGEN; RIJKSUNIVERSITEIT TE GRONINGEN) 17 November 1999 (1999-11-17) claims 1,6,17-19,24-26 paragraphs [0021], [0060]; table 1 -----	1-4,9, 14-59
P,X	wo 2004/053105 A (NANOSPHERE, INC; BAO, YIJIA, P; MARLA, SUDHAKAR, S; MULLER, UWE; STORH) 24 June 2004 (2004-06-24) claims 150-157 page 5, paragraph 1 page 10, paragraph 3 page 18, paragraph 2 page 35, paragraph 1 -----	1-4,9, 14-59
P,X	wo 2004/029299 A (HAIN LI FESCIENCE GMBH; WEIZENEGGER, MICHAEL; BOLLEN, MICHAELA) 8 April 2004 (2004-04-08) claims 1.2,616-18 pages 3,5,22 page 33; sequence 48 -----	1-4,9, 14-59
A	wo 03/020952 A (GEN-PROBE INCORPORATED) 13 March 2003 (2003-03-13) the whole document -----	
A	IZARD N C ET AL: "RIBOTYPING OF COAGULASE-NEGATIVE STAPHYLOCOCCI WITH SPECIAL EMPHASIS ON INTRASPECIFIC TYPING OF STAPHYLOCOCCUS-EPIDERMIDIS" JOURNAL OF CLINICAL MICROBIOLOGY, WASHINGTON, DC, US, vol. 30, no. 4, April 1992 (1992-04), pages 817-823, XP009020531 ISSN: 0095-1137 the whole document -----	

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International application No  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons

- 1 ☐ Claims Nos  
because they relate to subject matter not required to be searched by this Authority, namely
  
- 2 ☐ Claims Nos  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically
  
- 3 ☐ Claims Nos  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows

see additional sheet

- 1 ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims
  
- 2 ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee
  
- 3 ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos
  
- 4 ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos

1-3, 14-59 (partially), 4 and 9 (completely)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest
- ☐ No protest accompanied the payment of additional search fees

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 14-59 (partially), 4 and 9 (completely)

PNA probe comprising a nucleobase sequence suitable for the analysis of *S.epidermidis*, probe sets and kits comprising said probe and methods for analysing *S.epidermidis*.

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2. claims: 1-3, 14-59 (partially), 5 and 10 (completely)

PNA probe comprising a nucleobase sequence suitable for the analysis of *S.hominis*, probe sets and kits comprising said probe and methods for analysing *S.hominis*.

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3. claims: 1-3, 14-59 (partially), 6 and 11 (completely)

PNA probe comprising a nucleobase sequence suitable for the analysis of *S.haemolyticus*, probe sets and kits comprising said probe and methods for analysing *S.haemolyticus*.

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4. claims: 1-3, 14-59 (partially), 7 and 12 (completely)

PNA probe comprising a nucleobase sequence suitable for the analysis of *S.lugdunensis*, probe sets and kits comprising said probe and methods for analysing *S.lugdunensis*.

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5. claims: 1-3, 14-59 (partially), 8 and 13 (completely)

PNA probe comprising a nucleobase sequence suitable for the analysis of *S.saprophyticus*, probe sets and kits comprising said probe and methods for analysing *S.saprophyticus*.

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6. claims: 1-3,14, 15,25-59 (partially)

PNA probe comprising a nucleobase sequence, wherein at least a portion of the probe is at least 86% identical to the nucleobase sequence or complement of SEQ ID No.4 suitable for the analysis of *S.warneri*, probe sets and kits comprising said probe and methods for analysing *S.warneri* using said probe.

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7. claims: 1-3,14,15,25-59 (partially)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

PNA probe comprising a nucleobase sequence, wherein at least a portion of the probe is at least 86% identical to the nucleobase sequence or complement of SEQ ID No. 9 suitable for the analysis of *S.sciuri*, probe sets and kits comprising said probe and methods for analysing *S.sciuri* using said probe.

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8. claims: 1-3,14,15,25-59 (partially)

PNA probe comprising a nucleobase sequence, wherein at least a portion of the probe is at least 86% identical to the nucleobase sequence or complement of SEQ ID No. 10 or 11 suitable for the analysis of *S.schleiferi*, probe sets and kits comprising said probe and methods for analysing *S.schleiferi* using said probe.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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